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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,184	11/16/2001	Xiao-Xiong Zhou	1718-0194P	1295
2292 7	7590 04/23/2003		•	
	WART KOLASCH &	EXAMINER		
PO BOX 747 FALLS CHUR	CH, VA 22040-0747	FISHER, LATONIA M		
			ART UNIT	PAPER NUMBER
			1623	7
į.			DATE MAILED: 04/23/2003	/

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)			
Offic Action Summary		10/015,184		ZHOU ET AL.			
		Examiner		Art Unit			
		La Tonia M. Fish		1623			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)☐	Responsive to communication(s) filed on						
- ')∟ 2a)[	•	· nis action is non-	final.				
3)	Since this application is in condition for allowa	ance except for f	ormal matters, pi	osecution as to the merits is	3		
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>							
•	Claim(s) <u>1-18</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120  13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
/	a) ☑ All b) ☐ Some * c) ☐ None of:						
4)	1. Certified copies of the priority documents have been received.						
	2. ☑ Certified copies of the priority documents have been received in Application No. <u>09/249,317</u> .						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
1	See the attached detailed Office action for a list		-		on)		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmer	/	_	<b>-</b>				
2)  Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [ 5) [ <u>6</u> . 6) [	<del>_</del>	ry (PTO-413) Paper No(s) Patent Application (PTO-152)			

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### **DETAILED ACTION**

Claims 1-18 are pending.

## Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klaveness et al. (WO 91/06554) in view of Goodman et al (USPN 5,441, 942).

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 1 is drawn to methods for treatment of treatment of HBV or HIV infections comprising administering to an individual in need thereof compounds bearing nucleoside analogues or pharmaceutically acceptable salts thereof. Claim 2 is drawn to a method treatment of HBV or HIV infections comprising administering to an individual in need thereof an effective amount of fluorinated nucleoside derivatives or pharmaceutically acceptable salts thereof. Further dependent limitations in claims 3-18 include the identity of the specific compound derivatives used in the methods of claims 1 and 2, the identity of the specific nucleoside analogues used in the methods, the dosage amount of the compound administered in the methods and the metabolization of the compound used in the methods.

Klaveness et al. disclose a method for treatment and prophylaxis of retrovirus infections comprising administering compositions comprising fluorinated nucleosides and pharmaceutically acceptable salts thereof to patients suffering from such disorders. See p. 57, claim 8. Klaveness et al. teach that the prior art compounds used in the method may be formulated in conventional manner by admixture of one or more compounds of prior art with excipients and/or carriers. See pg. 6 and p. 57, claim 6. Furthermore, Klaveness teaches that suitable dosages of the prior art compositions lie in the range of 0.1 to 100mg per kilogram of bodyweight per 24 hour period. See p.10.

Klaveness et al. does not specifically disclose a method for treatment and prophylaxis of retrovirus infections comprising administering compositions comprising guanosine.

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Goodman et al. disclose methods of enhancing an immune response in human and animal cells comprising administering a guanosine composition to a mammal.

The chemical core of the compounds used in the method of the instant application and those of the prior art substantially overlap. Likewise, the dosage amounts and formulations of the compounds administered in the claimed methods also substantially overlap. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to administer to an individual in need thereof a compound comprising a fluorinated nucleoside comprising guanosine as a method for treating HBV or HIV infections as the applicants have done with the references before them. Applicants would have been motivated to treat HBV or HIV infections in a patient in need thereof by administering fluorinated nucleosides comprising guanosine since the known compounds are known to treat retroviruses individually and since the Goodman et al. patent teaches that certain guanine nucleosides enhance an in immune response in human and animal cells. See UPSN '942, col. 3, lines 43-46.

### Conclusion

Claims 1-18 are rejected. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to La Tonia M. Fisher whose telephone number is (703) 306-5819. The examiner can normally be reached on Monday - Friday from 9:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on (703) 308-4532. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4556 for regular communications and (703) 308-4556 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

LMF

April 20, 2003

/ JAMES O. WILSON

SUPERVISORY PATENT EXAMINER